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Constructive solid geometry approach to three-dimensional structural shape optimization
S KODIYALAM, V KUMAR, P FINNIGAN - AIAA Journal, 1992 - pdf.aiaa.org
... and the material derivative **methods**.15 A ... calculations in an automatic **mesh generation**
environment, could also be ... has access to the **finite element** stiffness and ...
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Methods for Distributed Design and Fabrication of Parts with Local Composition Control
W Cho, EM Sachs, NM Patrikalakis, MJ Cima, TR ... - Proceedings of the 2001 NSF Design and Manufacturing ... -
mit.edu
... STEP) data is used as an input to tetrahedral **mesh generation** algorithms ... is based
on the widely-used triangular **finite- element** meshing structure ... Design **Methods** ...
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On Extensible and Object-Relational Database Technology for Finite Element Analysis Applications
K Orsborn - Linkoeping Studies in Science and Technology Dissertation No - user.it.uu.se
... include computational-intensive and complex analysis **methods**. ... is on the next **generation**
extensible and ... uous domain into a **finite element mesh** consisting of ...
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Stabilized finite element methods for fluid dynamics using a hierarchical basis
CH Whiting, KE Jansen, T Adviser, NY Troy - intranet.scorec.rpi.edu
... present an initial application of the **methods** to a ... **mesh** is represented by a data
structure (**mesh database**) that ... **finite element mesh**, known as "**mesh** entities ...
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Dynamic Refinement AlgorithmsforSpectral Element Methods
RI Meiron, CI f Technology, CA Pasadena - pdf.aiaa.org
... the same as in any algorithm for **finite element** meth- ods. ... points are completely
local to an **element** and play ... for representing the topology of the **mesh** is to ...
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An object-oriented structural optimization program
CAC Silva, ML Bittencourt - Structural and Multidisciplinary Optimization, 2000 - springerlink.com
... solver class has all data and **methods** required for ... design analysis procedures in-
volve **finite element** analysis steps: **mesh generation**, global system ...
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[PS] DEVELOPEMENT OF AN ADAPTIVE P-REFINEMENT SCHEME FOR FINITE ELEMENT ANALYSIS
K Shaik - iitg.ernet.in
... FINITE ELEMENT ANALYSIS ... 3. A renement module for adaptive nite **element mesh generation**
or polynomial ... 6 Object-oriented programming **methods** combined with data ...
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Optimizing electromagnetic devices combining direct search methods with simulated annealing
J Simkin, CW Trowbridge - IEEE Transactions on Magnetics, 1992 - ieeexplore.ieee.org
... Method The environment uses an Integral **Finite Element** tech- nique ... depends upon the
choice of **element** shape and ... nay method is used; this enables the **mesh** to be ...
Cited by 17 - Web Search - ieeexplore.ieee.org - csa.com

Reconstruction of multiple cracks in an ECT round robin test
M Rebican, N Yusa, Z Chen, K Miya, T Uchimoto, T ... - Int. J. Appl. Electromagn. and Mech, 2004 -
iospress.metapress.com

...·to reduce the computational time of these **methods**. ... burden is required for the **generation**
·'of the ... 3. **Finite element mesh** (solid line) and interpolation lines ...
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Hybrid system for multi-language and multi-environment **generation** of numerical codes
J Korelc - The 2001 International Symposium on Symbolic and Algebraic ..., 2001 - portal.acm.org
... method (complex preprocessing, postprocessing and **mesh** genera- tion ... for the creation
of the **finite element** codes. ... multi-language code **generation** (FORTRAN, C ...
Cited by 6 - Web Search - portal.acm.org - library.wolfram.com - csa.com - all 5 versions »

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